US 6,882,728 B2

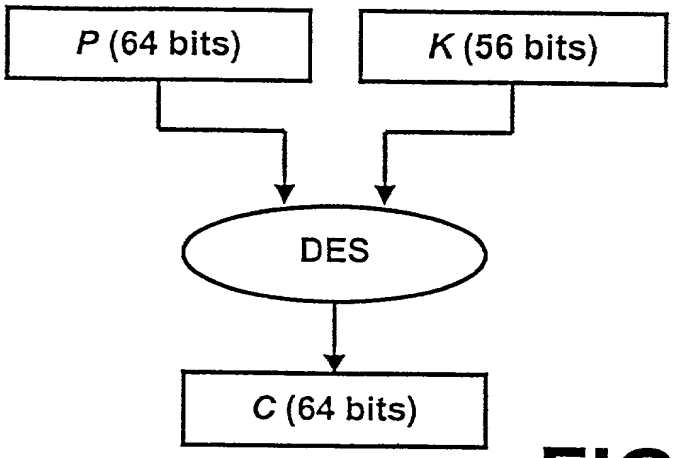

FIG. 1
(Prior Art)

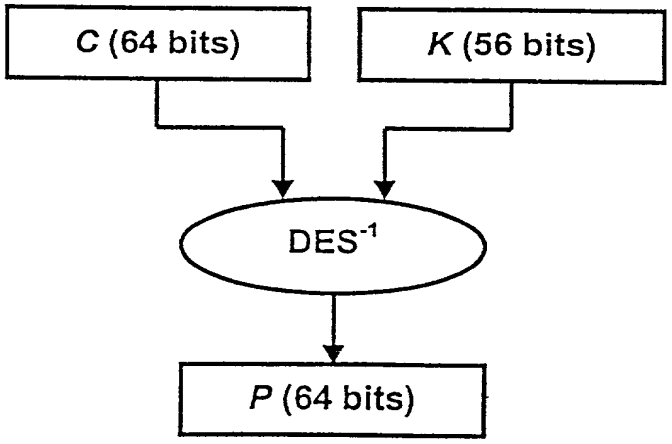

FIG. 2
(Prior Art)

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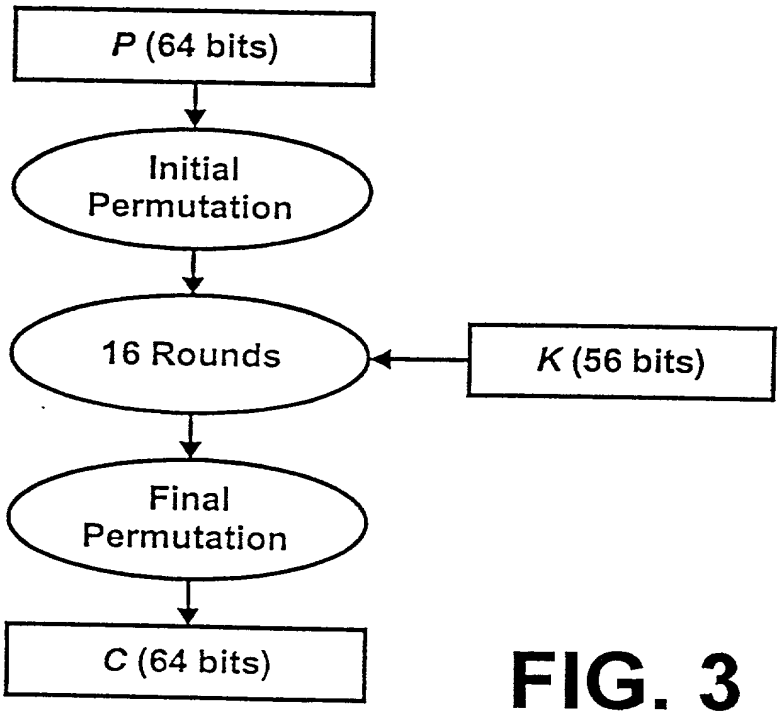

FIG. 3
(Prior Art)

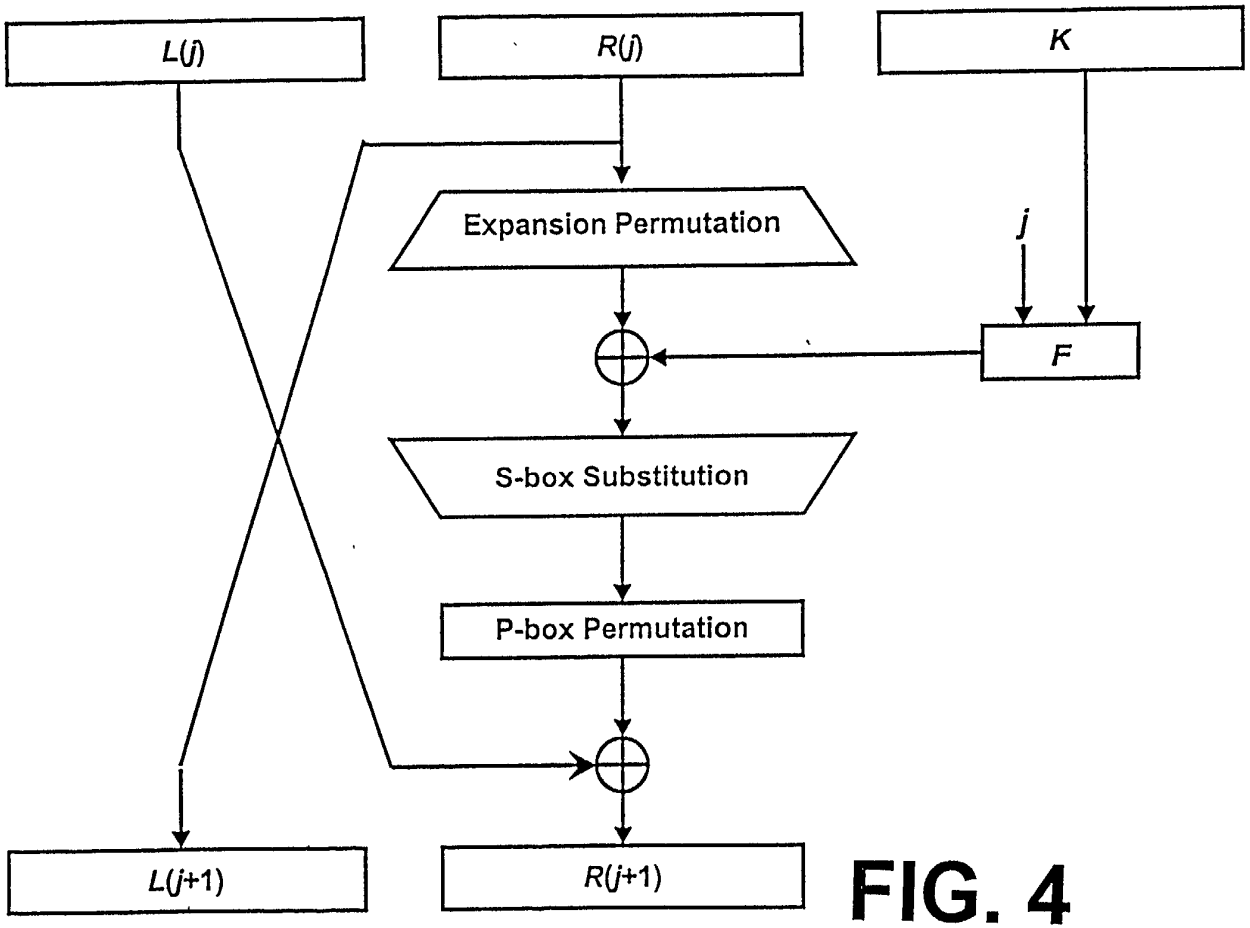

FIG. 4
(Prior Art)

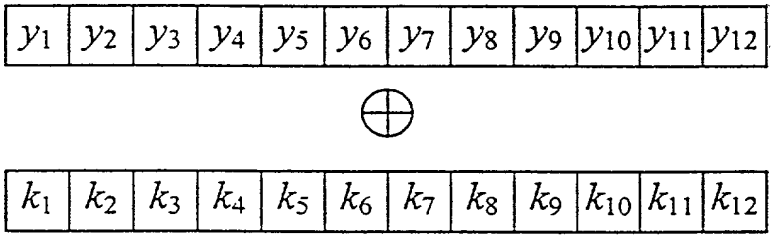

FIG. 5

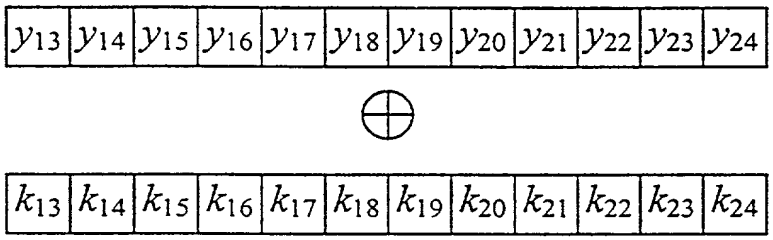

FIG. 6

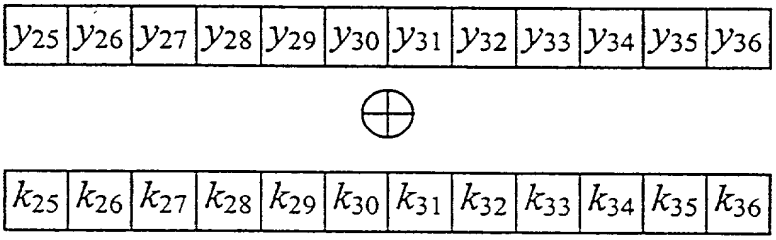

FIG. 7

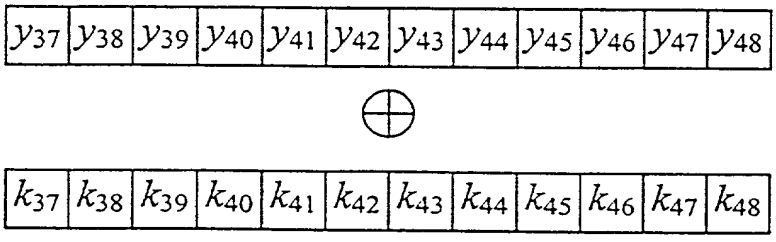

FIG. 8

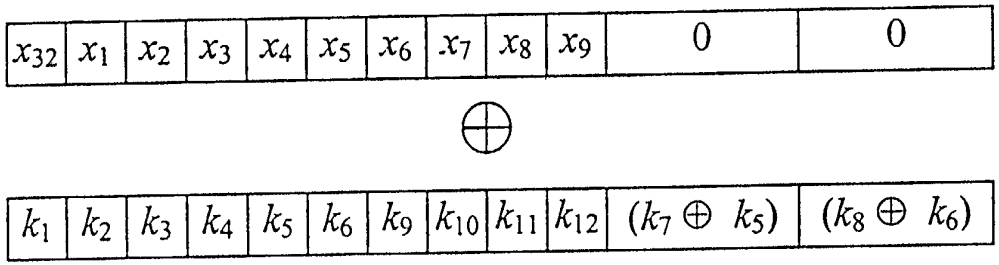
x_{32} x_1 x_2 x_3 x_4 x_5 x_6 x_7 x_8 x_9 0 0
k_1 k_2 k_3 k_4 k_5 k_6 k_9 k_{10} k_{11} k_{12} $(k_7 \oplus k_5)$ $(k_8 \oplus k_6)$

FIG. 9

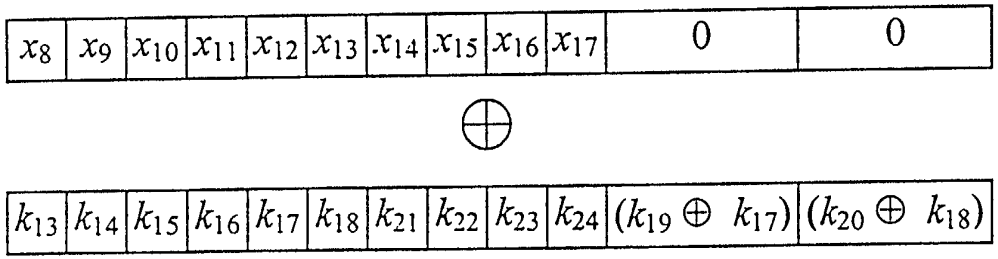
x_8 x_9 x_{10} x_{11} x_{12} x_{13} x_{14} x_{15} x_{16} x_{17} 0 0
k_{13} k_{14} k_{15} k_{16} k_{17} k_{18} k_{21} k_{22} k_{23} k_{24} $(k_{19} \oplus k_{17})$ $(k_{20} \oplus k_{18})$

FIG. 10

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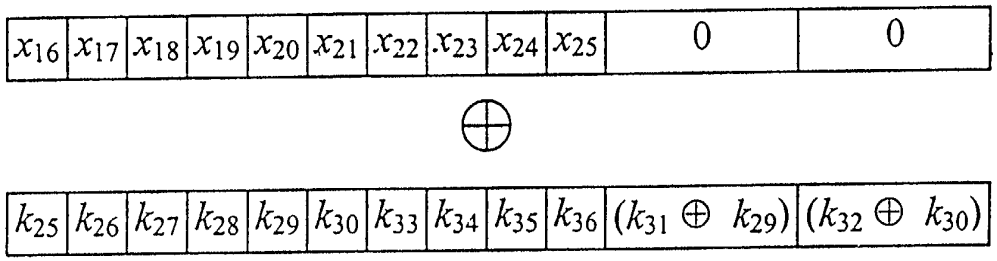

FIG. 11

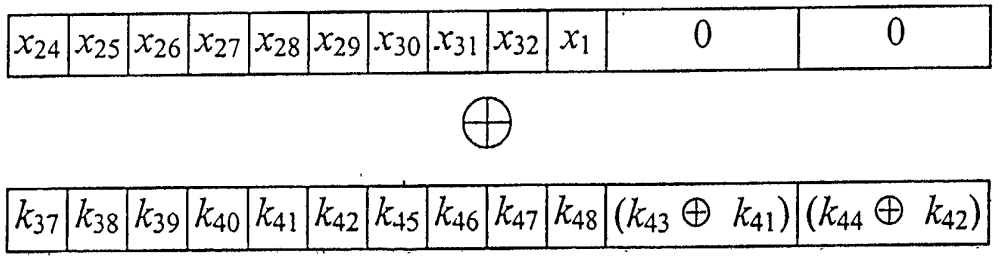

FIG. 12